

Regional HIV/AIDS Epidemiologic Profile of Hampden County, Massachusetts: 2015

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Disease, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2015, this resulted in the removal of 4,401 HIV/AIDS cases, of which 1,021 have died and 3,380 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location at diagnosis, is the basis for MDPH service planning. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual risk category for men; those cases have been reassigned to the no identified risk (NIR) category. The presumed heterosexual risk category was used with the intention of identifying HIV risk for women when sex with men is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. The application of the presumed heterosexual risk category to men is overly inclusive in that woman to man HIV transmission is biologically less probable, and there are alternate risks that are possible for men, including sex with other men (MSM) or IDU. The CDC reports men diagnosed with HIV/AIDS who report sex with women as their only risk factor, without corresponding partner risk or HIV status information, in the NIR category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for men in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual risk categories for women.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2014: Hampden County, Massachusetts²

	N	%
People Living with HIV/AIDS	1,756	56%
People Reported with HIV or AIDS who are Deceased	1,373	44%
Total Number of People Reported with HIV Infection or AIDS	3,129	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 2. Average annual rate of HIV infection diagnosis from 2011 to 2013 and HIV/AIDS prevalence rate on 12/31/14¹: Hampden County, Massachusetts²

Average annual HIV diagnosis rate from 2011–2013	Average rate per 100,000	Average annual number of HIV diagnoses
Hampden County, MA	13.8	64.0
Massachusetts Total	10.7	701.3

HIV/AIDS prevalence rate on 12/31/14	Rate per 100,000	Number of people living with HIV/AIDS
Hampden County, MA	378.9	1,756
Massachusetts Total	301.5	19,737

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2004–2013, Hampden County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2004	1,426	49	103
2005	1,465	45	84
2006	1,507	38	80
2007	1,527	37	57
2008	1,552	34	59
2009	1,563	38	49
2010	1,600	28	65
2011	1,631	24	55
2012	1,681	27	77
2013	1,718	23	60

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 4. People diagnosed with HIV infection from 2011–2013¹ and people living with HIV/AIDS on December 31, 2014 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Hampden County, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	137	71%	1,077	61%
Female	55	29%	679	39%
Place of Birth:	N	%	N	%
US	129	67%	1,164	66%
Puerto Rico/US Dependency ³	41	21%	488	28%
Non-US	22	11%	104	6%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	45	23%	418	24%
Black (non-Hispanic)	49	26%	358	20%
Hispanic/Latino	95	49%	960	55%
Asian/Pacific Islander	-- ⁶	-- ⁶	14	1%
Other/unknown	-- ⁶	-- ⁶	6	0%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	70	36%	397	23%
Injection Drug Use (IDU)	21	11%	505	29%
MSM/IDU	-- ⁶	-- ⁶	53	3%
Heterosexual Sex	22	11%	327	19%
Other	-- ⁶	-- ⁶	49	3%
Total Undetermined	76	40%	425	24%
• Presumed Heterosexual Sex ⁴	24	13%	160	9%
• Undetermined ⁵	52	27%	265	15%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2014	
Under 13	0	0%	2	<1%
13 to 19	7	4%	8	<1%
20 to 24	26	14%	48	3%
25 to 29	23	12%	61	3%
30 to 34	14	7%	88	5%
35 to 39	26	14%	117	7%
40 to 44	25	13%	184	10%
45 to 49	34	18%	283	16%
50 to 54	15	8%	368	21%
55 to 59	12	6%	285	16%
60+	10	5%	312	18%
Total	192	100%	1,756	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 5. People living with HIV/AIDS on December 31, 2014 by gender and race/ethnicity: Hampden County, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	300	28%	118	17%
Black (non-Hispanic)	201	19%	157	23%
Hispanic/Latino	562	52%	398	59%
Asian/Pacific Islander	9	1%	5	1%
Total²	1,077	100%	679	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Total includes American Indian/Alaska Native, other and unspecified race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 6. People living with HIV/AIDS on December 31, 2014 by gender and exposure mode: Hampden County, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	397	37%	N/A	N/A
Injection drug use (IDU)	325	30%	180	27%
MSM/IDU	53	5%	N/A	N/A
Heterosexual sex	69	6%	258	38%
Other	27	3%	22	3%
Total Undetermined	206	19%	219	32%
• Presumed heterosexual sex ²	N/A	N/A	160	24%
• Undetermined ³	206	19%	59	9%
Total	1,077	100%	679	100%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Hampden County, Massachusetts¹, 2004–2013²

	Male		Female		Total
	N	%	N	%	
2004	60	58%	43	42%	103
2005	50	60%	34	40%	84
2006	47	59%	33	41%	80
2007	37	65%	20	35%	57
2008	38	64%	21	36%	59
2009	39	80%	10	20%	49
2010	43	66%	22	34%	65
2011	38	69%	17	31%	55
2012	56	73%	21	27%	77
2013	43	72%	17	28%	60

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Hampden County, Massachusetts¹, 2004–2013²

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino		Total ³
	N	%	N	%	N	%	N
2004	18	17%	30	29%	54	52%	103
2005	17	20%	21	25%	42	50%	84
2006	18	23%	12	15%	49	61%	80
2007	14	25%	13	23%	29	51%	57
2008	13	22%	15	25%	29	49%	59
2009	12	24%	11	22%	24	49%	49
2010	19	29%	13	20%	33	51%	65
2011	12	22%	12	22%	28	51%	55
2012	18	23%	25	32%	34	44%	77
2013	15	25%	12	20%	33	55%	60

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include Asian/Pacific Islander, American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Hampden County, Massachusetts¹, 2004–2013²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	N
2004	60	58%	32	31%	11	11%	103
2005	49	58%	26	31%	9	11%	84
2006	50	63%	22	28%	8	10%	80
2007	34	60%	18	32%	5	9%	57
2008	40	68%	14	24%	5	8%	59
2009	37	76%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	49
2010	48	74%	12	18%	5	8%	65
2011	35	64%	12	22%	8	15%	55
2012	51	66%	18	23%	8	10%	77
2013	43	72%	11	18%	6	10%	60

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of people living with HIV/AIDS in MA who were born in a US dependency were born in Puerto Rico, 2% were born in US minor outlying areas, <1% were born in the US Virgin Islands, and <1% were born in Guam.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Hampden County, Massachusetts¹, 2004–2013²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2004	16	16%	25	24%	-- ⁵	-- ⁵	24	23%	-- ⁵	-- ⁵	13	13%	19	18%	103
2005	19	23%	27	32%	-- ⁵	-- ⁵	12	14%	-- ⁵	-- ⁵	10	12%	15	18%	84
2006	19	24%	23	29%	-- ⁵	-- ⁵	10	13%	-- ⁵	-- ⁵	13	16%	14	18%	80
2007	13	23%	12	21%	0	0%	7	12%	0	0%	9	16%	16	28%	57
2008	19	32%	10	17%	-- ⁵	-- ⁵	8	14%	-- ⁵	-- ⁵	8	14%	13	22%	59
2009	20	41%	5	10%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	17	35%	49
2010	20	31%	11	17%	-- ⁵	-- ⁵	11	17%	-- ⁵	-- ⁵	6	9%	15	23%	65
2011	19	35%	10	18%	-- ⁵	-- ⁵	6	11%	-- ⁵	-- ⁵	6	11%	13	24%	55
2012	34	44%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	10	13%	-- ⁵	-- ⁵	11	14%	17	22%	77
2013	17	28%	8	13%	0	0%	6	10%	0	0%	7	12%	22	37%	60

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Hampden County, Massachusetts¹, 2004–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2004	31	103	30%
2005	32	84	38%
2006	17	80	21%
2007	19	57	33%
2008	15	59	25%
2009	13	49	27%
2010	23	65	35%
2011	16	55	29%
2012	23	77	30%
2013	11	60	18%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Hampden County, Massachusetts,¹ 2011–2013²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	32	137	23%
Female	18	55	33%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	11	45	24%
Black (non-Hispanic)	17	49	35%
Hispanic/Latino	20	95	21%
Asian/Pacific Islander	-- ⁵	-- ⁵	-- ⁵
Other/Undetermined ³	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	28	129	22%
Puerto Rico/US Dependencies ⁴	13	41	32%
Non-US	9	22	41%
Total	50	192	26%

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2011–2013 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/15